WHAT IS CLAIMED IS:

1	method for producing a dental positioning appliance which is
2	removably attachable to at least one dental feature to effect or enhance dental positioning,
3	said method comprising:
4	providing a mold of dental features wherein the mold has at least one
5	attachment device mounted or formed on a surface of the mold;
6	forming the dental appliance over the mold with the attachment device;
7	and
8	removing the dental appliance from the mold, wherein the appliance has a
9	receptacle corresponding to the attachment device and tooth receiving cavities
10	corresponding to the dental features of the mold.
1	2. A method as in claim 1, wherein the method further comprises:
2	providing additional structures on the mold of dental features, wherein the
3	appliance has protrusions corresponding to the structures; and
4	removing the appliance from the mold utilizing the protrusions, whereby
5	removal is aided.
1	3. A method as in claim, wherein the method further comprises:
2	providing additional structures in the mold of dental features, wherein the
3	structures provide a guide to demarcate a portion of the appliance in a desired location;
5	and
3	altering a portion of the appliance demarcated by the structure.
1	4. A method as in claim 3, wherein the altering step comprises cutting
- 2	out the portion of the appliance demarcated by the structure, whereby a window is created
3_	to expose the underlying dental feature
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1	A method for producing a digital model, said method comprising:
2	providing a digital model of at least one dental feature;
3	providing a digital model of at least one attachment device; and
4	positioning the digital model of the attachment device on the digital model
5	of the dental feature to produce a combined computerized model.

1	A method for producing a dental positioning appliance which is
2	removably attachable to at least one dental feature to effect or enhance dental positioning,
3	said method comprising:
4	providing a combined digital model of at least one dental feature having at
5	least one attachment device;
6	producing a mold from the combined digital model, wherein the mold has
7	the attachment device on a surface thereof;
8	forming a dental positioning appliance over the mold; and
9	removing the appliance from the mold, wherein the appliance has a
10	receptacle corresponding to the attachment device and cavities corresponding to the
11	dental features.
1	A method as in claim, wherein the method further comprises:
2	providing a digital model of an additional structure;
3	positioning the digital model of the additional structure on the digital
4	model of dental features, wherein the appliance has protrusions corresponding to the
5	structures; and
6	removing the appliance from the mold utilizing the protrusions, whereby
7	removal is aided.
1	A method as in claim, wherein the method further comprises:
2	providing a digital model of an additional structure;
3	positioning the digital model of the additional structure on the digital
4	model of dental features, wherein the structures provide a guide to demarcate a portion of
5	the appliance in a desired location; and
6	altering a portion of the appliance demarcated by the structure.
1	A method as in claim wherein the altering step comprises cutting
2	out the portion of the appliance demarcated by the structure, whereby a window is created
3	to expose the underlying dental feature.

1	10. A method for forming an attachment device on a dental surface,
2	said method comprising;
3	providing a template which is removably positionable over at least one
4	dental feature, wherein the template has at least one receptacle having a location and
.5	shape corresponding to those of the attachment device;
6	inserting dental material into the receptacle;
7	positioning the template over the corresponding dental feature(s) of a
8	patient; and
9	polymerizing the dental material,
10	whereby an attachment device is formed on the dental surface.
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1	11. A method as in claim 10, wherein the polymerizing step comprises
2	bonding to the dental feature.
1	12. A method as in claim 10, wherein the polymerizing step, comprises
2	hardening of the dental material but not bonding the material to the dental feature.
1	13. A method as in claim 10, wherein the template comprises a multi-
2	tooth template which is positionable over multiple dental features so that multiple
3	attachment devices can be formed on one or multiple dental features
1	14. A method as in claim 10, wherein the template comprises a single-
2	tooth template which is positionable over one dental feature so that at least one
3	attachment device can be positioned on one dental feature.
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1	15. A method for bonding an attachment device to a dental surface,
2	said method comprising:
3	providing an attachment device having a bonding surface thereof;
4	providing a template which is removably placeable over a least one dental
5	feature,
6	inserting the attachment device into a receptacle in the template; and
7	positioning the template over the dental features of the patient with an
8	adhesive between the bonding surface and the surface of the dental feature;
9	whereby the attachment device is bonded to the surface of the denta
10	feature by means of the adhesive

1	16. Amethod as in claim 15, wherein the adhesive is initially present
2	on the bonding surface of the attachment device.
1	17. A method as in claim 15, further comprising applying the adhesive
2	to the dental feature.
1	18. A method as in claim 7, wherein the adhesive is applied prior to
2	positioning the template.
1	19. Method for moving teeth, said method comprising:
2	securing an attachment device on a dental feature; and
3	removably positioning a first dental positioning appliance over the dental
4	feature wherein the appliance comprises an elastic polymeric shell having a cavity which
5	receives the dental feature and a receptacle which receives the attachment device.
1	20. A method as in claim 19, wherein the appliance applies
2	repositioning force to the attachment device.
1	21. A method as in claim 19, wherein the appliance is anchored with
2	the attachment device and applies a repositioning force to another dental feature.
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1	22. A method as in claim 19, further comprising removably positioning
2	at least a third dental positioning appliance over the dental feature, wherein the second
3	dental positioning appliance comprises an elastomeric shell having a cavity which
4	receives the dental feature and a receptacle which receives the attachment device, wherein
5	at least one of the receptacle and the cavity has a different configuration than that of the
6	first'dental positioning appliance.
1	23. A method as in claim 22, further comprising removably positioning
2	at least a third dental positioning appliance over the dental feature, wherein the second
3	dental positioning appliance comprises an elastomeric shell having a cavity which
	receives the dental feature and a receptacle which receives the attachment device, wherein
4	
5	at least one of the receptacle and the cavity has a different configuration than that of the
6	first and second dental positioning appliances.

	1	24. A method as in claim 23, wherein at least five dental positioning
/	2	appliances are successively placed over the dental feature.
5	1	25 A mosthed of in claim 22 wherein at least ten dental positioning
,	1	25. A method as in claim 23, wherein at least ten dental positioning
	2	appliances are successively placed over the dental feature.
	1	26. A method as in claim 19, wherein the dental positioning appliance-
	2	applies an extrusive force to the attachment device.
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	1	27. A method as in claim 19, wherein the dental positioning appliance
	2	applies a rotational force to the attachment device.
	1	28. A dental attachment device comprising:
	2	an attachment body having a base, wherein the base is mountable on a
	3	dental feature and the body is suitable for receiving a removably attachable dental
	4	appliance.
	1	29. A device as in claim 28, wherein the attachment body comprises
	2	bumps, beads, wedges, hooks, clasps, bands, brackets, buttons, snaps, springs, levers,
	3	rods, tubes, coils, indents and/or other protrusions.
	1	30. A device as in claim 29, wherein additional devices are used in
•	2	conjunction with the attachment body, comprising adhesives, flexible bands and/or
	3	ligatures.
	1	31. A device as in claim 30, wherein the protrusion comprises a
	2	structure protruding perpendicularly from the surface of the dental feature, said structure
	3	having a geometry which engages a feature in the dental positioning appliance.
	1	32. A device as in claim 31, wherein the structure includes a sloping
	2	angle of less than 90 degrees from the surface of the dental feature to the opposing end of
	3	the protruding structure to aid in positioning the appliance.
	1	33. A device as in claim 28, wherein the attackment device includes at
	2	least one layer of a polymeric material having a first state where the device does not
	3	conform to the surface of a dental feature and a second state where the device conforms to
	4	the surface of a dental feature.

1	34. A system for moving teeth, said system comprising:
2	a dental positioning adjustment appliance comprising an elastic polymeric
3	shell removably placeable over at least one dental feature; and
4	an attachment device mountable on the dental feature,
5	wherein the appliance engages the attachment device when the appliance is
6	positioned over the dental feature to assist in dental repositioning.
1	35. A system as in claim 34, wherein the appliance and at least one
2	attachment device are configured to provide intrusive forces on a dental feature which is
3	free from attachment devices.
1	36. A system as in claim 34, wherein the appliance and the attachment
2	device are configured to provide extrusive forces on a dental feature upon which the
3	device is mounted.
1	37. A system as in claim 34, wherein the appliance and the attachment
2	device are configured to provide rotational forces on a dental feature upon which the
3	device is mounted.